

Title (en)  
Laser plane generating system and method

Title (de)  
Laser Nivellier-System und Verfahren

Title (fr)  
Procédé et dispositif à laser pour le nivellement

Publication  
**EP 0957338 A3 20000315 (EN)**

Application  
**EP 98124886 A 19981230**

Priority  
US 7485698 A 19980508

Abstract (en)  
[origin: EP0957338A2] A laser generator is provided having a rotating scanner head within which a target is mounted. The target is a position sensitive cell which is used to buck the laser generator into a pre-determined reference plane. The laser generator is used in conjunction with passive reflectors which do not need any circuitry to be operated. In operation, the laser generator scans a generated laser beam to define a laser plane. The reflectors are disposed to define the reference plane. As the generated laser beam impinges upon a reflector, the laser is re-directed back to the scanning head where it impinges upon the target. The impingement upon the target indicates the relative position and angular orientation relative to the reflector. In response to acquired data, the position and angular orientation of the laser generator may be adjusted to be aligned with all of the reflectors, resulting in the scanned laser plane being bucked into the reference plane. <IMAGE>

IPC 1-7  
**G01C 5/00**

IPC 8 full level  
**G01C 15/00** (2006.01)

CPC (source: EP US)  
**G01C 15/004** (2013.01 - EP US)

Citation (search report)

- [YP] US 5784155 A 19980721 - OHTOMO FUMIO [JP], et al
- [Y] DE 3912406 A1 19901018 - BUSCH DIETER & CO PRUEFTECH [DE]
- [YD] US 5307368 A 19940426 - HAMAR MARTIN R [US]

Cited by  
EP1096224A3; EP1203930A3; US6421360B1

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